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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/871,309 | 05/30/2001 | Hiroyuki Yamada | MAT-8140US | 1614 |

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EXAMINER

EASTHOM, KARL D

| | |
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| ART UNIT | PAPER NUMBER |
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2832

DATE MAILED: 12/20/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/871,309

Applicant(s)
Yamada et al.

Examiner
Karl Easthom

Art Unit
2832



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Oct 3, 2001
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☐ All b) ☐ Some* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892) 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) ☐ Notice of Informal Patent Application (PTO-152)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 1 20) ☐ Other:

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

2. Claims 1, 6, 9-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Johnston et al. The claimed invention is disclosed at Fig. 3 with S-shape section 23 between rectangular sections at the ends.

3. Claims 1 and 6 are rejected under 35 U.S.C. 102(e, b) as being anticipated by Johnston et al. Haspeslagh discloses the claimed invention at Fig. 1A with printed resistor 2 having an S-shape between two rectangular (the straight portions at the ends) sections connected to electrodes 3 or

4. Similarly, Collins discloses the claimed invention at Fig. 1A with electrodes 11 on substrate 15 with printed resistor R comprising an S-shape between rectangular sections.

4. Claims 1-3, and 5-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Jenkins et al. The claimed invention is disclosed at Fig. 1 with S-shape section 16 between a rectangular section 20 at one end, and another rectangular section connected to electrode 14 (the little section after the last turn, or the long straight portion adjacent and after where the numeral 16 points). The section 20 is trimmed in Fig. 3, meeting claims 2-3, and 8. In claim 7, the metal oxide film resistor is printed where it is patterned and applied as disclosed at col. 4, lines 28-34.

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5. Claims 1-6, 8-11, 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Solow. Solow discloses the claimed invention at Fig. 1 with electrodes 20 (or the metal on lands 16), trim cut 40 in a wider rectangular portion (claims 2-3, 5, 8), and resistor 14 comprising an S-shaped section. The rectangular portions at the end appear to be at least twice the thickness of the S-shaped parts - claim 4.

6. Claims 11-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Kambara et al. Kambara discloses the claimed invention at Fig. 10. The side sections are 2d'' where there is at least an S section 2a'' between two of said sections, and each section is contemplated to be trimmed (see cut 8a'' - meeting claim 12). Each side section is "coupled" to the electrodes 3, 4 where the whole resistor is electrically coupled thereto. At the point where the line 2d'' ends on the section it points to, one sees that there is "a width" of the side portion (triangular almost), greater than a width of the S shaped section, meeting claim 11.

7. Claims 11 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Brandi. et al. Brandi discloses the claimed invention at Fig1 with wider side sections 18. Or one S section is between the wider portions where the numeral 10 points.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl Easthom whose telephone number is (703) 3-08-3306.


KARL D. EASTHOM
PRIMARY EXAMINER